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seismic and streamer and cable and control and bird and marine and depth

34

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IBM Technical Disclosure Bulletins

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control and bird and marine and depth[Clear](#)**Search History****Today's Date: 9/14/2001**

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WEST**Generate Collection****Search Results - Record(s) 1 through 34 of 34 returned.** **1. Document ID: US 6256090 B1**

L7: Entry 1 of 34

File: USPT

Jul 3, 2001

US-PAT-NO: 6256090

DOCUMENT-IDENTIFIER: US 6256090 B1

TITLE: Method and apparatus for determining the shape of a flexible body

DATE-ISSUED: July 3, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Chen; Peter C.	Arlington	VA	N/A	N/A
Sirkis; James S.	Burtonsville	MD	N/A	N/A

US-CL-CURRENT: 356/73.1; 250/227.14[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KMC](#) | [Draw. Desc](#) | [Image](#) **2. Document ID: US 6216627 B1**

L7: Entry 2 of 34

File: USPT

Apr 17, 2001

US-PAT-NO: 6216627

DOCUMENT-IDENTIFIER: US 6216627 B1

TITLE: Seismic survey vessels

DATE-ISSUED: April 17, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Johnsen; Baard	Lillesand	N/A	N/A	NOX
Aanonsen; Oyvind	Mandal	N/A	N/A	NOX
Williamson; Mark Richard	Sugar Land	TX	N/A	N/A

US-CL-CURRENT: 114/244; 114/254[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KMC](#) | [Draw. Desc](#) | [Image](#) **3. Document ID: US 6151556 A**

L7: Entry 3 of 34

File: USPT

Nov 21, 2000

US-PAT-NO: 6151556

DOCUMENT-IDENTIFIER: US 6151556 A

TITLE: Method and apparatus for doppler smear correction in marine seismology measurements

DATE-ISSUED: November 21, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Allen; Kenneth Paul	Dallas	TX	N/A	N/A

US-CL-CURRENT: 702/18; 367/23[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#)[KMC](#) [Draw](#) [Desc](#) [Image](#) 4. Document ID: US 6115325 A

L7: Entry 4 of 34

File: USPT

Sep 5, 2000

US-PAT-NO: 6115325

DOCUMENT-IDENTIFIER: US 6115325 A

TITLE: Variable length data field in a seismic data stream

DATE-ISSUED: September 5, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Chien; Loring C.	Katy	TX	N/A	N/A
Falzone; Richard August	Houston	TX	N/A	N/A

US-CL-CURRENT: 367/21; 367/15, 702/14[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#)[KMC](#) [Draw](#) [Desc](#) [Image](#) 5. Document ID: US 6091670 A

L7: Entry 5 of 34

File: USPT

Jul 18, 2000

US-PAT-NO: 6091670

DOCUMENT-IDENTIFIER: US 6091670 A

TITLE: Underwater cable arrangement and coil support arrangement for an underwater cable

DATE-ISSUED: July 18, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Oliver; Andre W.	River Ridge	LA	N/A	N/A
Rouquette; Robert E.	Kenner	LA	N/A	N/A
Rau; Brien G.	Gretna	LA	N/A	N/A

US-CL-CURRENT: 367/76; 367/20

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#)[KMC](#) [Drawn Desc](#) [Image](#)**□ 6. Document ID: US 6049507 A**

L7: Entry 6 of 34

File: USPT

Apr 11, 2000

US-PAT-NO: 6049507

DOCUMENT-IDENTIFIER: US 6049507 A

TITLE: Method and apparatus for correcting effects of ship motion in marine seismology measurements

DATE-ISSUED: April 11, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Allen; Kenneth Paul	Dallas	TX	N/A	N/A

US-CL-CURRENT: 367/21; 367/46, 367/62[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#)[KMC](#) [Drawn Desc](#) [Image](#)**□ 7. Document ID: US 6031789 A**

L7: Entry 7 of 34

File: USPT

Feb 29, 2000

US-PAT-NO: 6031789

DOCUMENT-IDENTIFIER: US 6031789 A

TITLE: Magnetic drive subassembly in a depth control device

DATE-ISSUED: February 29, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Broussard; Keith	Houston	TX	N/A	N/A
Sprain; Alan	Houston	TX	N/A	N/A
Erath; Louis W.	Abbeville	LA	N/A	N/A

US-CL-CURRENT: 367/16; 367/17[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#)[KMC](#) [Drawn Desc](#) [Image](#)**□ 8. Document ID: US 6016286 A**

L7: Entry 8 of 34

File: USPT

Jan 18, 2000

US-PAT-NO: 6016286
DOCUMENT-IDENTIFIER: US 6016286 A

TITLE: Depth control device for an underwater cable

DATE-ISSUED: January 18, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Olivier; Andrew.	River Ridge	LA	N/A	N/A
Ragan; Bryant G.	Metairie	LA	N/A	N/A
Cronvich; James T.	Harahan	LA	N/A	N/A

US-CL-CURRENT: 367/17; 114/245, 118/110, 367/16

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [KMC](#) | [Draw Desc](#) | [Image](#)

9. Document ID: US 6011753 A

L7: Entry 9 of 34

File: USPT

Jan 4, 2000

US-PAT-NO: 6011753

DOCUMENT-IDENTIFIER: US 6011753 A

TITLE: Control and monitoring of devices external to a marine seismic streamer

DATE-ISSUED: January 4, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Chien; Loring C.	Katy	TX	N/A	N/A

US-CL-CURRENT: 367/21; 181/110, 367/76

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [KMC](#) | [Draw Desc](#) | [Image](#)

10. Document ID: US 6011752 A

L7: Entry 10 of 34

File: USPT

Jan 4, 2000

US-PAT-NO: 6011752

DOCUMENT-IDENTIFIER: US 6011752 A

TITLE: Seismic streamer position control module

DATE-ISSUED: January 4, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ambs; Loran D.	Fulshear	TX	N/A	N/A
Chambers; Ronald E.	Houston	TX	N/A	N/A

US-CL-CURRENT: 367/17; 114/242, 114/244

US-PAT-NO: 5631874

DOCUMENT-IDENTIFIER: US 5631874 A

TITLE: Telemetry transmission protocol for towed hydrophone streamer

DATE-ISSUED: May 20, 1997

INVENTOR- INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Mastin; Robert H.	Dallas	TX	N/A	N/A
Fletcher; Deane D.	Plano	TX	N/A	N/A
Hepp; John S.	Irving	TX	N/A	N/A

US-CL-CURRENT: 367/15; 340/870.02, 340/870.13, 367/134

Full	Title	Citation	Front	Review	Classification	Date	Reference	KMC	Drawn Desc	Image
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 14. Document ID: US 5619474 A

L7: Entry 14 of 34

File: USPT

Apr 8, 1997

US-PAT-NO: 5619474

DOCUMENT-IDENTIFIER: US 5619474 A

TITLE: Depth control apparatus

DATE-ISSUED: April 8, 1997

INVENTOR- INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kuche; Hans-Walter	Sprockh ovel	N/A	N/A	DEX

US-CL-CURRENT: 367/17; 114/245, 114/332, 367/16

Full	Title	Citation	Front	Review	Classification	Date	Reference	KMC	Drawn Desc	Image
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 15. Document ID: US 5583824 A

L7: Entry 15 of 34

File: USPT

Dec 10, 1996

US-PAT-NO: 5583824

DOCUMENT-IDENTIFIER: US 5583824 A

TITLE: Telemetry data transmission circuit having selectable clock source

DATE-ISSUED: December 10, 1996

INVENTOR- INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fletcher; Deane D.	Plano	TX	N/A	N/A

US-CL-CURRENT: 367/21; 367/79

Full	Title	Citation	Front	Review	Classification	Date	Reference	KMC	Drawn Desc	Image
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[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#)[KWC](#) [Drawn Desc](#) [Image](#) 11. Document ID: US 5937782 A

L7: Entry 11 of 34

File: USPT

Aug 17, 1999

US-PAT-NO: 5937782

DOCUMENT-IDENTIFIER: US 5937782 A

TITLE: Underwater device with a sacrificial latch mechanism

DATE-ISSUED: August 17, 1999

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Rau; Brien G.

Jefferson

LA

N/A

N/A

US-CL-CURRENT: 114/247; 114/245[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#)[KWC](#) [Drawn Desc](#) [Image](#) 12. Document ID: US 5790472 A

L7: Entry 12 of 34

File: USPT

Aug 4, 1998

US-PAT-NO: 5790472

DOCUMENT-IDENTIFIER: US 5790472 A

TITLE: Adaptive control of marine seismic streamers

DATE-ISSUED: August 4, 1998

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Workman; Ricky L.

Houston

TX

N/A

N/A

Chambers; Ronald Edward

Houston

TX

N/A

N/A

US-CL-CURRENT: 367/19; 367/16[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#)[KWC](#) [Drawn Desc](#) [Image](#) 13. Document ID: US 5631874 A

L7: Entry 13 of 34

File: USPT

May 20, 1997

16. Document ID: US 5529011 A

L7: Entry 16 of 34

File: USPT

Jun 25, 1996

US-PAT-NO: 5529011

DOCUMENT-IDENTIFIER: US 5529011 A

TITLE: Connector for underwater cables

DATE-ISSUED: June 25, 1996

INVENTOR- INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Williams, Jr.; Oneil J.	Metairie	LA	N/A	N/A

US-CL-CURRENT: 114/245; 16/381, 24/327, 59/95

Full	Title	Citation	Front	Review	Classification	Date	Reference	KWC	Draw. Desc	Image
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 17. Document ID: US 5507243 A

L7: Entry 17 of 34

File: USPT

Apr 16, 1996

US-PAT-NO: 5507243

DOCUMENT-IDENTIFIER: US 5507243 A

TITLE: Connector for underwater cables

DATE-ISSUED: April 16, 1996

INVENTOR- INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Williams, Jr.; Oneil J.	Metairie	LA	N/A	N/A
Olivier; Andre W.	New Orleans	LA	N/A	N/A

US-CL-CURRENT: 114/245; 367/154

Full	Title	Citation	Front	Review	Classification	Date	Reference	KWC	Draw. Desc	Image
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 18. Document ID: US 5450369 A

L7: Entry 18 of 34

File: USPT

Sep 12, 1995

US-PAT-NO: 5450369

DOCUMENT-IDENTIFIER: US 5450369 A

TITLE: Telemetry transmission protocol for towed hydrophone streamer

DATE-ISSUED: September 12, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Mastin; Robert H.	Dallas	TX	N/A	N/A
Fletcher; Deane D.	Plano	TX	N/A	N/A
Hepp; John S.	Irving	TX	N/A	N/A

US-CL-CURRENT: 367/21; 367/15, 367/60, 702/14

Full	Title	Citation	Front	Review	Classification	Date	Reference	KMC	Drawn Desc	Image
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 19. Document ID: US 5412621 A

L7: Entry 19 of 34

File: USPT

May 2, 1995

US-PAT-NO: 5412621

DOCUMENT-IDENTIFIER: US 5412621 A

TITLE: Encapsulated hydrophone element for towed hydrophone array

DATE-ISSUED: May 2, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hepp; John S.	Irving	TX	N/A	N/A

US-CL-CURRENT: 367/154; 29/594, 310/337, 310/340, 367/155, 367/159, 367/162,
367/20

Full	Title	Citation	Front	Review	Classification	Date	Reference	KMC	Drawn Desc	Image
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 20. Document ID: US 5404339 A

L7: Entry 20 of 34

File: USPT

Apr 4, 1995

US-PAT-NO: 5404339

DOCUMENT-IDENTIFIER: US 5404339 A

TITLE: Retriever for a seismic streamer cable

DATE-ISSUED: April 4, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Cole, Jr.; Jimmy R.	Houston	TX	N/A	N/A

US-CL-CURRENT: 367/16; 367/18

Full	Title	Citation	Front	Review	Classification	Date	Reference	KMC	Drawn Desc	Image
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21. Document ID: US 5400298 A

L7: Entry 21 of 34

File: USPT

Mar 21, 1995

US-PAT-NO: 5400298

DOCUMENT-IDENTIFIER: US 5400298 A

TITLE: Towed hydrophone streamer with distributed electronics housings

DATE-ISSUED: March 21, 1995

INVENTOR- INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hepp; John S.	Irving	TX	N/A	N/A

US-CL-CURRENT: 367/20; 174/101.5, 367/154[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#)[KMC](#) [Drawn Desc](#) [Image](#) 22. Document ID: US 5214612 A

L7: Entry 22 of 34

File: USPT

May 25, 1993

US-PAT-NO: 5214612

DOCUMENT-IDENTIFIER: US 5214612 A

TITLE: Swing plate latch mechanism

DATE-ISSUED: May 25, 1993

INVENTOR- INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Olivier; Andre W.	New Orleans	LA	N/A	N/A
Christensen; Christian J.	Harahan	LA	N/A	N/A

US-CL-CURRENT: 367/16; 114/245, 367/17, 367/20[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#)[KMC](#) [Drawn Desc](#) [Image](#) 23. Document ID: US 5200930 A

L7: Entry 23 of 34

File: USPT

Apr 6, 1993

US-PAT-NO: 5200930

DOCUMENT-IDENTIFIER: US 5200930 A

TITLE: Two-wire multi-channel streamer communication system

DATE-ISSUED: April 6, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Rouquette; Robert E.	Kenner	LA	N/A	N/A

US-CL-CURRENT: 367/76[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#)[KMC](#) [Drawn Desc](#) [Image](#) 24. Document ID: US 5199659 A

L7: Entry 24 of 34

File: USPT

Apr 6, 1993

US-PAT-NO: 5199659

DOCUMENT-IDENTIFIER: US 5199659 A

TITLE: Seismic cable retrieval apparatus and method

DATE-ISSUED: April 6, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Zibilich, Jr.; Anthony M.	Mandeville	LA	N/A	N/A

US-CL-CURRENT: 242/470; 114/254, 254/134.3SC, 405/173[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#)[KMC](#) [Drawn Desc](#) [Image](#) 25. Document ID: US 5148406 A

L7: Entry 25 of 34

File: USPT

Sep 15, 1992

US-PAT-NO: 5148406

DOCUMENT-IDENTIFIER: US 5148406 A

TITLE: Method for simultaneous collection of seismic data from shallow and deep targets

DATE-ISSUED: September 15, 1992

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Brink; Munday	Drammen	N/A	N/A	NOX
Gateman; Jan	Lysaker	N/A	N/A	NOX

US-CL-CURRENT: 367/22; 367/20, 367/49, 702/14[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#)[KMC](#) [Drawn Desc](#) [Image](#)

26. Document ID: US 4928262 A

L7: Entry 26 of 34

File: USPT

May 22, 1990

US-PAT-NO: 4928262

DOCUMENT-IDENTIFIER: US 4928262 A

TITLE: Marine seismic streamer retrieval system

DATE-ISSUED: May 22, 1990

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Feeley; Walter P.	Irving	TX	N/A	N/A
Ritter; Sammie F.	Roanoke	TX	N/A	N/A

US-CL-CURRENT: 367/106; 367/16, 367/19[Full](#)[Title](#)[Citation](#)[Front](#)[Review](#)[Classification](#)[Date](#)[Reference](#)[KMC](#)[Drawn Desc](#)[Image](#) 27. Document ID: US 4912684 A

L7: Entry 27 of 34

File: USPT

Mar 27, 1990

US-PAT-NO: 4912684

DOCUMENT-IDENTIFIER: US 4912684 A

TITLE: Seismic streamer communication system

DATE-ISSUED: March 27, 1990

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fowler; John T.	Marblehead	MA	N/A	N/A

US-CL-CURRENT: 367/76; 367/16[Full](#)[Title](#)[Citation](#)[Front](#)[Review](#)[Classification](#)[Date](#)[Reference](#)[KMC](#)[Drawn Desc](#)[Image](#) 28. Document ID: US 4890568 A

L7: Entry 28 of 34

File: USPT

Jan 2, 1990

US-PAT-NO: 4890568

DOCUMENT-IDENTIFIER: US 4890568 A

TITLE: Steerable tail buoy

DATE-ISSUED: January 2, 1990

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dolengowski; George A.	Bellaire	TX	N/A	N/A

US-CL-CURRENT: 114/246; 114/163, 114/253

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#)[KMC](#) [Draw Desc](#) [Image](#) 29. Document ID: US 4745583 A

L7: Entry 29 of 34

File: USPT

May 17, 1988

US-PAT-NO: 4745583

DOCUMENT-IDENTIFIER: US 4745583 A

TITLE: Marine cable system with automatic buoyancy control

DATE-ISSUED: May 17, 1988

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Motal, Gary W.	Houston	TX	N/A	N/A

US-CL-CURRENT: 367/18; 114/245, 367/106, 367/130, 367/16[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#)[KMC](#) [Draw Desc](#) [Image](#) 30. Document ID: US 4634804 A

L7: Entry 30 of 34

File: USPT

Jan 6, 1987

US-PAT-NO: 4634804

DOCUMENT-IDENTIFIER: US 4634804 A

TITLE: Streamer cable with protective sheaths for conductor bundle

DATE-ISSUED: January 6, 1987

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Spalding, Philip C.	League City	TX	N/A	N/A

US-CL-CURRENT: 174/24; 174/101.5, 174/136, 181/112, 367/15, 367/154[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#)[KMC](#) [Draw Desc](#) [Image](#) 31. Document ID: US 4566083 A

L7: Entry 31 of 34

File: USPT

Jan 21, 1986

US-PAT-NO: 4566083

DOCUMENT-IDENTIFIER: US 4566083 A

TITLE: Seismic timing control system

DATE-ISSUED: January 21, 1986

INVENTOR- INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Thigpen; Ben B.	Houston	TX	N/A	N/A

US-CL-CURRENT: 367/21; 367/23[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#)[KWMC](#) [Drawn Desc](#) [Image](#) 32. Document ID: US 4528650 A

L7: Entry 32 of 34

File: USPT

Jul 9, 1985

US-PAT-NO: 4528650

DOCUMENT-IDENTIFIER: US 4528650 A

TITLE: Streamer cable multiplexing apparatus

DATE-ISSUED: July 9, 1985

INVENTOR- INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Howlett; Donald L.	Kingwood	TX	N/A	N/A
Meyer; Herbert J.	Bellaire	TX	N/A	N/A
Zimmer; Stanley F.	Houston	TX	N/A	N/A

US-CL-CURRENT: 367/79; 340/870.13[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#)[KWMC](#) [Drawn Desc](#) [Image](#) 33. Document ID: US 4314363 A

L7: Entry 33 of 34

File: USPT

Feb 2, 1982

US-PAT-NO: 4314363

DOCUMENT-IDENTIFIER: US 4314363 A

TITLE: Marine seismic cable handler

DATE-ISSUED: February 2, 1982

INVENTOR- INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Thigpen; Ben B.	Houston	TX	N/A	N/A
Hebert; Joel J.	Houston	TX	N/A	N/A

US-CL-CURRENT: 367/16; 114/244, 181/112, 367/106, 367/130

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [KMC](#) [Draw Desc](#) [Image](#) 34. Document ID: US 4027616 A

L7: Entry 34 of 34

File: USPT

Jun 7, 1977

US-PAT-NO: 4027616

DOCUMENT-IDENTIFIER: US 4027616 A

TITLE: Protection means for depth control device

DATE-ISSUED: June 7, 1977

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Guenther; Robert O.	Irving	TX	N/A	N/A
Huffhines; Donald F.	Richardson	TX	N/A	N/A
Krall; James W.	Irving	TX	N/A	N/A
Ray; Charles D.	Dallas	TX	N/A	N/A

US-CL-CURRENT: 114/244; 367/17, 367/20[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [KMC](#) [Draw Desc](#) [Image](#)[Generate Collection](#)

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